



# COUNTY OF SAN LUIS OBISPO

## DEPARTMENT OF GENERAL SERVICES

COUNTY GOVERNMENT CENTER • SAN LUIS OBISPO, CALIFORNIA 93408 • (805) 781-5200

DUANE P LEIB, DIRECTOR

### INVITATION TO BID #3380-05 THERMOPLASTIC PAVEMENT MARKING EQUIPMENT

December 7, 2005

The County of San Luis Obispo is currently soliciting bids for Thermoplastic Pavement Marking Equipment as noted.

Each bid shall specify each and every item as set forth in the attached specifications. Any and all exceptions must be clearly stated in the bid. Failure to set forth any item in the specifications shall be grounds for rejection. The County of San Luis Obispo reserves the right to reject all bids and to waive any informalities.

Please submit your bids on the attached form. They must be received at the office of the General Services Department no later than 4:00 p.m., December 21, 2005.

Any and all comments and suggestions are sincerely encouraged prior to the bid opening. **Please direct all questions regarding equipment specifications to Jim Berg at (805) 781-5112.**

MICHAEL CARLIN  
Buyer - Central Services Division

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**THERMOPLASTIC PAVEMENT MARKING EQUIPMENT**

**TO:            ALL PROSPECTIVE BIDDERS**

**SUBJECT:    LOCAL BIDDERS PREFERENCE**

The County of San Luis Obispo has established a local vendor preference. All informal and formal bids for contracts will be evaluated with a 5% preference for local vendors. Note the following exceptions:

1.     Those contracts which State Law requires be awarded to the lowest responsible bidder.
2.     Public works construction projects.

A "local" vendor will be approved as such when, 1) It conducts business in an office with a physical location within the County of San Luis Obispo; 2) It holds a valid business license issued by the County or a city within the County; and 3) Business has been conducted in such a manner for not less than six (6) months prior to being able to receive the preference.

As of March 3, 1994 individual County Buyers evaluate bids considering the local vendor preference described above. The burden of proof will lie with bidders relative to verification of "local" vendor preference. Should any questions arise, please contact a buyer at (805) 781-5200. All prospective bidders are encouraged to quote the lowest prices at which you can furnish the items or services listed in County bids.

	YES	NO
Do you claim local vendor preference?		
Do you conduct business in an office with a physical location within the County of San Luis Obispo?		
Business Address: _____ _____		
Years at this Address: _____		
Does your business hold a valid business license issued by the County or a City within the County?		
Name of Local Agency which issued license: _____		

Business Name: \_\_\_\_\_

Authorized Individual: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Dated: \_\_\_\_\_

**County of San Luis Obispo Invitation to Bid #3380-05    December 7, 2005 Page 3**  
**THERMOPLASTIC PAVEMENT MARKING EQUIPMENT**

**TO:            ALL PROSPECTIVE BIDDERS**

**SUBJECT:    POLICY ON PURCHASING PRODUCTS MADE WITH OR CONTAINING  
                 CHLOROFLUOROCARBONS (CFC's)**

Summary

Many products contain chlorofluorocarbons (CFC's), a known depleter of ozone in the atmosphere. Under the U.S. Clean Air Act and the Montreal Protocol on Substances That Deplete the Ozone Layer, CFC production for use in industrialized nations is to be totally phased out by January 1, 1996. There are still many products on the market that contain CFC's or are made with CFC's. The Department of General Services, purchasing staff must identify products made with or containing CFC's and purchase alternative products whenever practical and possible.

Policy

To this end, it shall be the policy of the County of San Luis Obispo that all bidders, who wish to do business with the County are required to identify all products that contain CFC's or use CFC's in the manufacturing or shipping processes. Bidders are required to identify alternative products that do not use CFC's, for possible purchase by the County.

Bidder Response

	<b>YES</b>	<b>NO</b>
Do any products offered herein contain CFC's or use CFC's in the manufacturing or shipping process?		
If yes, please offer an alternative product by copying bid forms and submitting an alternate bid. Will you offer an alternate?		
Please provide any other information that may be helpful to the County. Attachments are acceptable.		

Bidder: \_\_\_\_\_

**GENERAL CONDITIONS AND INSTRUCTIONS**

1. All bids submitted by Seller to Purchaser should be submitted upon the attached bidder's form, completed and signed, (only typewritten or ink shall be accepted with no erasures or corrections unless properly authenticated by signature) in accordance with the instructions contained herein.
2. The issuance of this bid request creates no obligation on the part of the County and the County reserves the unconditional right at its option to either reject all bids or waive any irregularities or informalities therein. Each bid shall be in a separate sealed envelope with the bid number, name of bidder, title of the bid, date and time due showing on the outside of the envelope.
3. All prices must be firm for 45 days from the date of the bid opening and be inclusive. Upon award, prices will be in effect for the term of the contract.
4. Prompt payment discounts of 20 days or longer will only be considered when comparing bids, however, if you offer any prompt payment discounts, please indicate this on your bid.
5. Awards will be made to realize the greatest savings to the County and may not necessarily be the lowest bid especially where services are of the utmost importance.
6. Submission of a signed bid will be interpreted to mean that the bidder has thereby agreed to all conditions, instructions, descriptions and specifications contained herein.
7. All materials included in the contract shall be in compliance with all Federal and State OSHA laws.
8. All applicable City, State, and Federal taxes and fees are to be included in the proposal.
9. The only terms that will be honored are those terms included in general and special conditions and instructions, purchase order or other documents issued by the County.
10. In the event of any conflicts or ambiguities between these instructions and State or Federal laws, regulations or rules, then the latter shall prevail.
11. Only one bid will be accepted per vendor.
12. Bidders may withdraw their bid either personally, by written request, or by telegraphic request confirmed in the manner specified above at any time prior to the scheduled closing time for receipt of bids. No bidder may withdraw their bid after the time set for the opening.
13. All time limits stated are of the essence and must be complied with. Any bids received after closing time stipulated will be returned unopened.

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**THERMOPLASTIC PAVEMENT MARKING EQUIPMENT**

14. All bids must be submitted in a manner so they can be readily hole punched and placed in a standard legal size file folder.
15. The County may make partial payments after a substantial portion of the merchandise has been delivered. On all items, a 10% retention will be withheld until all merchandise has been accepted.
16. Brand names are used to establish a level of quality only. Any alternates must be approved five (5) days prior to the bid opening date, by the Central Services Manager, who will have the sole right to determine this. If an alternate is submitted without going through the above- described process, the County will have the sole right to decide whether or not an alternate is acceptable.
17. Vendor agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin and that it will comply with the "Contractor's Agreements" provisions of Presidential Executive Order No. 11246.
18. **NO FAXED** Bids will be accepted.
19. Return bid by December 21, 2005 at 4:00 p.m. to:

COUNTY OF SAN LUIS OBISPO  
DEPARTMENT OF GENERAL SERVICES  
MICHAEL CARLIN, BUYER  
1087 SANTA ROSA STREET  
SAN LUIS OBISPO, CALIFORNIA 93408

**County of San Luis Obispo Invitation to Bid #3380-05    December 7, 2005 Page 6**  
**THERMOPLASTIC PAVEMENT MARKING EQUIPMENT**

The undersigned agrees to:

Deliver F.O.B. itemized below, and in accordance with Specifications attached. All equipment to be new and unused of the latest model year and all attachments shall be designated to be compatible with equipment proposed.

All equipment and accessories shall comply with the applicable State and Federal Codes, Regulations and Requirements.

Equipment shall be delivered serviced and ready to operate.

DESCRIPTIVE LITERATURE WITH COMPLETE SPECIFICATIONS MUST ACCOMPANY ALL BIDS. DEVIATIONS TO ATTACHED SPECIFICATIONS MUST BE CLEARLY INDICATED. NO DEVIATIONS UNLESS SPECIFIED IN SPECIFICATION SHEET OR BELOW.

TERMS OF SALE \_\_\_\_\_

DATE OF DELIVERY \_\_\_\_\_

Authorized Official Name (Print) \_\_\_\_\_

Authorized Official Title (Print) \_\_\_\_\_

Signature \_\_\_\_\_

Firm Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Telephone \_\_\_\_\_ FAX \_\_\_\_\_

Federal Taxpayer ID# \_\_\_\_\_

☐ Individual/Sole Proprietor

☐ Corporation

☐ Partnership

☐ Other

BIDS MUST BE RECEIVED BY 4:00 P.M., December 21, 2005 AND  
WILL BE OPENED IN THE OFFICE OF THE CENTRAL SERVICES MANAGER  
Bid #3380-05

Accepted as to items numbered \_\_\_\_\_

Date \_\_\_\_\_ Order(s) No. \_\_\_\_\_

## SPECIFICATIONS FOR THERMOPLASTIC PAVEMENT MARKING EQUIPMENT

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**DEPARTMENT:** Public Works & Transportation

It is the intent of these specifications to describe thermoplastic pavement marking equipment designed to melt and place thermoplastic road marking material on roadways, suitable for the service demands of the County of San Luis Obispo, Department of Public Works, Sign Crew. The equipment must be new, unused and of the latest model.

All equipment and accessories shall meet OSHA, Department of Industrial Safety and California Department of Motor Vehicles regulations.

Minor deviations from these specifications may be acceptable provided that the operating capabilities or characteristics of the unit are not adversely affected. **Such deviations are to be noted under Deviations with the bid submission.**

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**1.0 BASIC MACHINE:** Reference Trantex Model TXCH220M **or equal**

Empty weight:	240 pounds ¥ Minimum
Overall Length:	48" approximate
Width:	30" approximate
Pointer:	The applicator shall be equipped with a front mounted pointer guide adjustable for each die size to be used.
Controls:	The applicator will have adjustable steel handles convenient for the operator to operate and maneuver the applicator. Aluminum control handles will not be accepted. Also located convenient to the operator will be the shut-off valve on the propane bottle, the LP gas regulator, the die control handle, the control for the thermoplastic material gate, bead control lever for drop-on beads, and material agitator.

**DEVIATIONS:**

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**2.0 HEATING SYSTEM:**

The applicator shall operate from a high pressure LP fuel system. Minimum operating pressure shall be adjustable from 4-7 PSI.

The temperature of the molten thermoplastic shall be heated in the holding tank by a replaceable brass main burner with a minimum rating of 25,000 BTU to provide rapid heating of thermoplastic material.

The LPG heating system shall be furnished with all necessary safety features, connections, fuel lines, regulators, etc. for connection to a propane cylinder.

An inspection door in the material tank shall allow for safe lighting of the burners via a hand held torch supplied with the applicator for operator safety.

Stainless steel jet burners shall be fitted at all material transfer valves and on each application die to assure proper operation of all functions. Units that heat general areas with the use of radiant heat will not be accepted.

The unit shall be equipped with a hand torch for safe lighting of all burners.

**DEVIATIONS:**

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**3.0 THERMOPLASTIC SYSTEM:**

**Holding Tank:** The applicator shall have a thermoplastic storage capacity of 220 pounds in a vertical, air jacketed, all steel construction material tank. The top shall have two hinged lids for material loading and inspection with a safety locking mechanism to prevent potential for splashing out of molten material. The tank will be designed to allow rapid, safe, easy removal of the tank for changing of material colors or cleaning. The tank shall have a recessed opening at the bottom to transfer hot plastic to the extrusion die for application.

This opening is recessed to allow complete depletion of all thermoplastic material in the holding tank thereby preventing build up of material. Material outlet valve shall be a precision adjustable slide gate. A molasses-type valve will not be acceptable.

A removable filter screen shall be provided to allow for filtering of foreign matter from hot molten material during loading from a thermoplastic melting kettle.

**Mixer:** Material agitation shall be provided by one mixer paddle. This mixer paddle shall be fabricated to prevent glass beads from settling out of the thermoplastic and to prevent scorching.

**DEVIATIONS:**

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#### **4.0 GLASS BEAD SYSTEM:**

**Bead Hopper and Hose:** A separate all steel construction glass bead hopper with a capacity of at least 50 pounds of glass spheres shall be mounted on rear of the applicator. The hopper shall be connected to the bead dispenser with a see through flexible bead hose to monitor bead flow and a positive on-off cut off valve.

**Dispenser:** The glass spheres shall be spread on the road surface by an automatic bead dispenser. The on-off lever shall be mounted within easy reach of the operator to facilitate ease of operation. The bead dispenser shall be designed so that variable width lines of 4", 5", 6", 8", and 12", and dual 4" widths can be achieved by finger tip adjustments without the use of additional tools. The bead dispenser must be adjustable from 1 /2" to 3" above the road surface and from 6" to 12" behind the extrusion die.

#### **DEVIATIONS:**

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#### **5.0 THERMOPLASTIC EXTRUSION DIES:**

The thermoplastic extrusion dies are to be available in widths of 4", 6", 8", 12" and double 4" for double line striping. The die walls are to be constructed of 3/16" heat treated steel plate (aluminum not permitted), with a maximum weight of 30 pounds for a 4" die and 52 pounds for a 12" die.

Each die shall be heated with its own set of stainless steel jet burners to maintain material and die temperature during applications. The die burners shall be connected to the frame LPG supply by flexible gas hoses and quick disconnect fittings. The die jet burners shall be individually controlled control valves.

Each die shall have the following minimum number of jet burners:

- 4" Die – 2 jet burners each
- 6" Die – 3 jet burners each
- 8" Die – 4 jet burners each
- 12" Die – 5 jet burners each

#### **DEVIATIONS:**

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**6.0 OTHER EQUIPMENT:**

**Thermoplastic Pre-Melter:** Reference Trantex Model TTT350SH or equal with 5.5hp manual start Honda engine or equal.

**Thermostatic Temperature Control:**

The heating system will be equipped with a pilot light and pilot safety valve connected with a thermocouple. The heating system main burner shall be controlled by a gas thermostat with adjustable range up to 550° F. The thermostat will be linked by thermocouple to the hot thermoplastic in the holding tank. Temperature gauge with readings up to 500° F. (260° C.) shall be mounted into material tank. Thermostat controls shall be mounted into a moisture proof enclosure.

**DEVIATIONS:**

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**7.0 PUBLICATIONS:**

Two copies of the parts books and catalogs, service manuals, operator's manuals and other pertinent materials covering the entire unit shall be included.

**8.0 GENERAL:**

The unit shall be delivered to the County Operation Center, with only minor assembly required and ready to operate. Upon delivery dealer shall provide demonstration of machine operation, safety features and other pertinent information.

All equipment cataloged as standard to be furnished and included in purchase price of unit, unless alternate item is specified.

The component parts of the unit shall be of proper size and design to safely withstand maximum stresses imposed by a capacity load. All driving parts shall have a torque capacity at least equal to maximum torque developed.

Only the latest models in current production which are cataloged by the manufacturers, and for which manufacturer's published literature and printed specifications are currently available, will be considered.

Bids will be considered only on equipment represented by a reliable manufacturer with a California distributor capable of providing timely service and parts. Dealer shall stock or be able to provide at least 90% of original equipment parts within 48 hours of order.

**WARRANTY:**

Applicator warranty length : \_\_\_\_\_

Pre-Melter warranty length: \_\_\_\_\_

Thermostat Control warranty length: \_\_\_\_\_

Extrusion Die warranty length: \_\_\_\_\_

**PRICING:**

**Thermoplastic Applicator (1 each)**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year of Mfg.: \_\_\_\_\_

Unit Price: \_\_\_\_\_

**Thermoplastic Pre-Melter (1 each)**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year of Mfg.: \_\_\_\_\_

Unit Price: \_\_\_\_\_

**Thermostatic Temperature Control (1 each)**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year of Mfg.: \_\_\_\_\_

Unit Price: \_\_\_\_\_

**Extrusion Dies (1 each size)**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year of Mfg.: \_\_\_\_\_

Unit Price:

4" Die: \_\_\_\_\_

6" Die: \_\_\_\_\_

8" Die: \_\_\_\_\_

12" Die: \_\_\_\_\_

**Sales Tax for all items:** \_\_\_\_\_

**Freight:** \_\_\_\_\_

**Grand Total:** \_\_\_\_\_